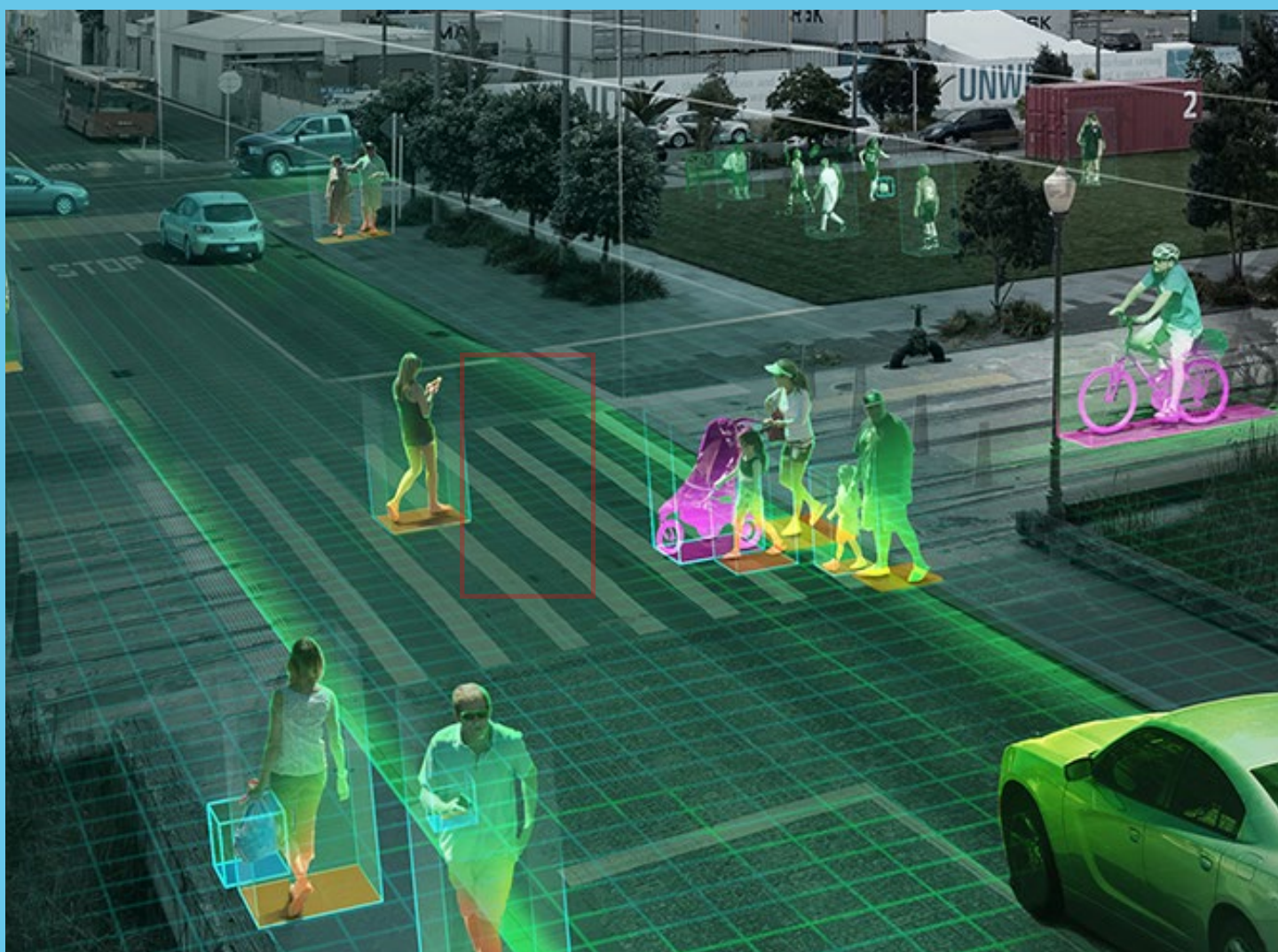


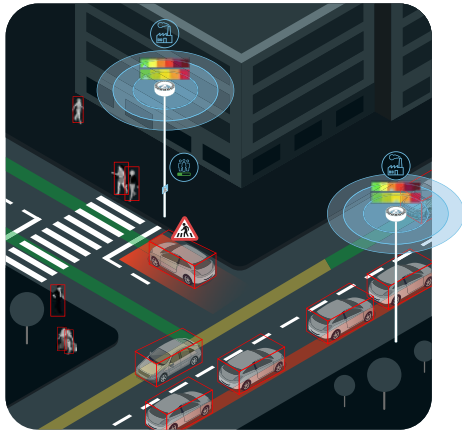
AI/ML TRAFFIC FLOW



AI/ML TRAFFIC FLOW

Discover how our advanced traffic flow monitoring system revolutionizes urban environments by optimizing vehicle and pedestrian movement, enhancing safety, and transforming city experiences.

Traffic flow with Omniflow utilizes on the edge computer vision technologies, processing data locally for reduced data consumption and privacy protection with no video stream being sent out of the Omniled. Our system offers a multitude of applications for smart cities, including:



EDGE COMPUTING

Computer vision / analytics
Optical sensors
≈ 95% accurate
Connectivity 5G | LTE small cell
IoT cloud based control system

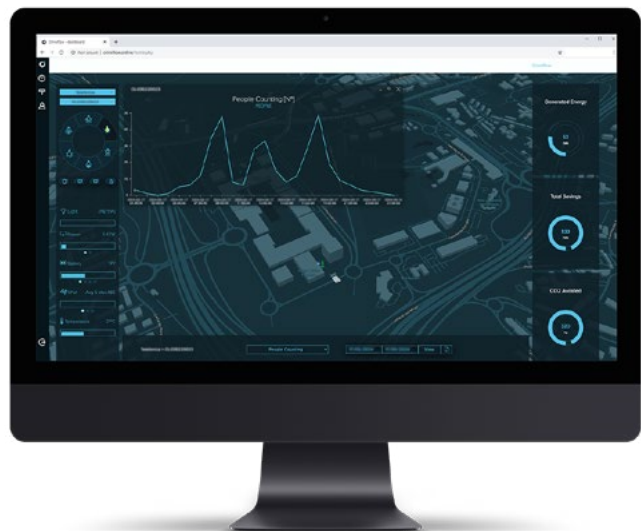
Optimizing Traffic Signals: Gain real-time insights into vehicle and pedestrian flow. This data empowers city officials to adjust traffic signals dynamically, reducing congestion and improving travel times for commuters.

Enhancing Public Transportation: Monitor the movement of buses, trams, and other public transport. This information helps optimize routes and schedules, ensuring efficient and reliable public transportation systems.

Improving Road Safety: Identify high-risk areas and monitor traffic patterns to enhance road safety. Data-driven insights enable the implementation of targeted safety measures, reducing accidents and improving overall traffic safety.

Urban Planning: Inform infrastructure development with detailed traffic flow data. This valuable information aids in designing roads, intersections, and pedestrian pathways that align with urban growth and mobility needs.

Event Management: Design transportation infrastructure, public spaces, and zoning that align with urban growth.



OMNICONNECT interface

Technical Data	Omniled 035	Omniled 07
Lighting Power [W]	12 - 48	30 - 180
Pole Height [m]	3 - 5	6 - 12
Edge Computing		
Optical sensors	up to 2	up to 4
Resolution	Full HD	
AI Performance	472 GFLOPS	

Traffic System

Real-time pedestrian area data

- Personalized alerts

Data storage up to 3 years

Export data for API integration:

- displays
- external platform